

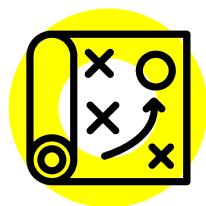






Big Questions from the Public Sector





HOW DO I PREPARE FOR AVs?

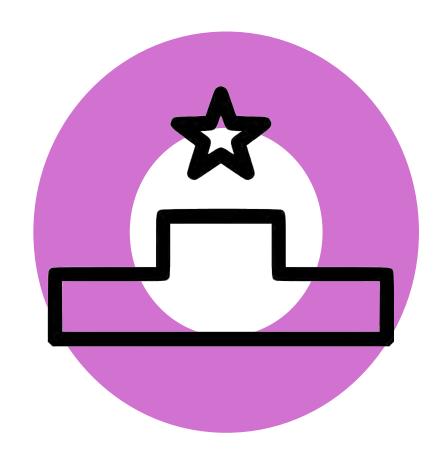


HOW DO I INTERACT WITH AVs?

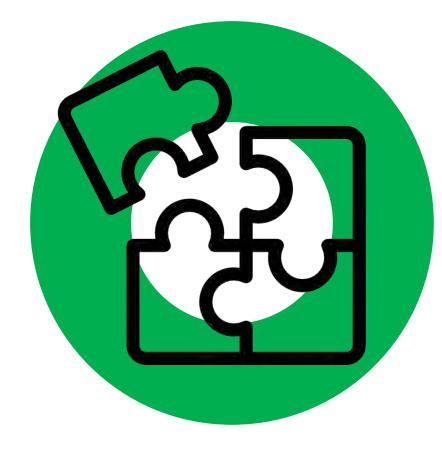




Reframing the Challenge



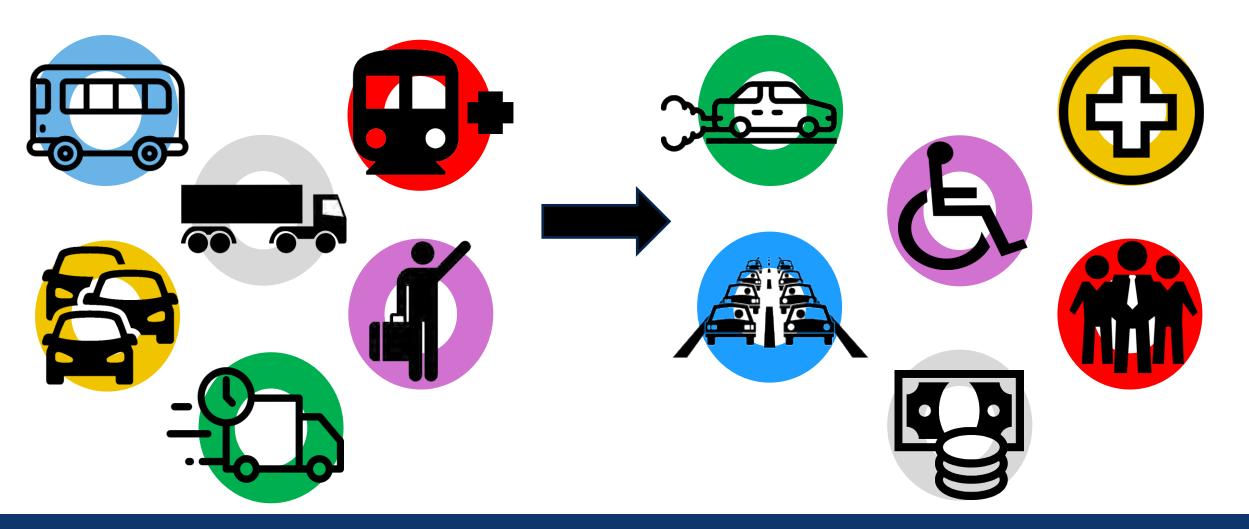








Matching Use Cases to Goals

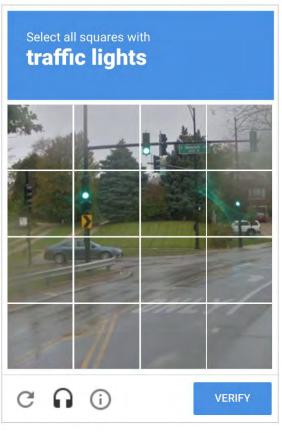






Machine Learning

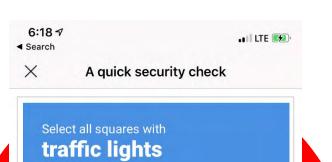


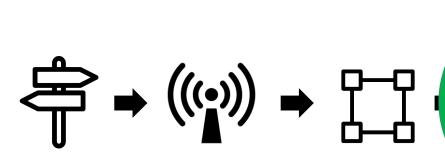


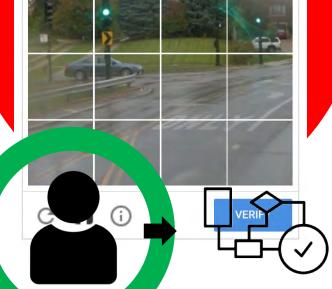




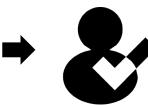
Machine Learning Human Training









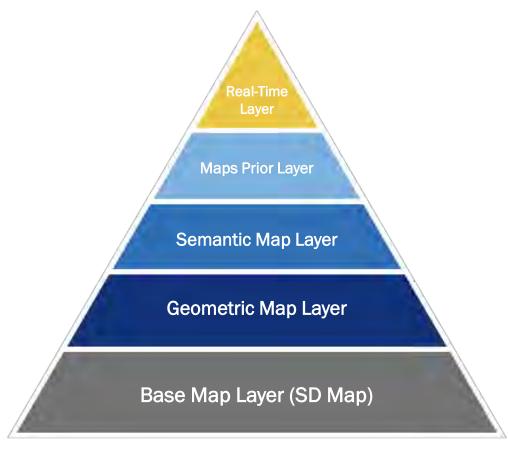






AVs Require HD Maps With a Variety of Data Layers

Mapping & self-driving companies have been creating HD maps but some serious gaps exist



Level 5 HAVs Rely on Multiple Map Layers

Current Issues Facing AVs & HD Maps:

- HD maps built using computer vision, sensor fusion, machine learning and 3rd party data sets
- Increasingly good at precise localization, recording and predicting behavior
- Not good at establishing ground-truth understanding of local traffic rules and allowable maneuvers set by public sector
- Current data sets are established on confidence interval and corrected manually
- Regulators increasingly requiring operators to outline how they account for and comply with local traffic rules





INRIX is Focused on the Semantic Layer, A Critical Map Component

Current HD maps have struggled to establish this data but INRIX is bridging the data gap







INRIX AV Road Rules:

A Platform To Remove The Guess Work







INRIX provides a platform to bridge the data gap between HAV operators and road authorities





INRIX Provides A Base Layer With Confidence Intervals



Road Authorities Can Verify & Approve Data With Ease

Rules included at launch:

Stop Sign

Road type

Crosswalk

Yield

Speed limit

Traffic signal

School Zone

One-way

Road closure

Turn Restriction

Lane closure

Lane count

Merge lanes/fork lanes

Bike lane present

HAV access

HAV/TNC pickup/drop-off

HOV access

Bus access

Bus stop

Height/length restrictions

Weight restrictions

Information shared to road authority:

Pothole

Worn lane striping Inadequate signage





Win-Win Solution



- Provides cities/agencies with necessary tool to preserve role of establishing and communicating rules or the road
- Immediate action to prepare for and support safe operation of HAVs
- Addresses key consumer concerns about safe HAV operation
- Makes jurisdiction more attractive market for testing/deployment of HAVs
- Provides new data stream re: road health and infrastructure needs



- Fills existing data gap for validated, ground-truth traffic rules and restrictions
- Answers questions posed by regulators of how HAVs will understand local rules
- Demonstrates HAV operator commitment to safe operation in accordance with local rules
- Provides valuable action cities/agencies can take to prepare for HAVs
- Promotes HAVs as improving road safety and quality for all road users





INRIX AV Road Rules Status







Education

Lawmakers, Consumers and Industry



PARTNERS FOR AUTOMATED VEHICLE EDUCATION

























































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